


Applicants now respectfully await the results of a first examination on the merits.

Respectfully submitted,

BROWDY AND NEIMARK, P.L.L.C.  
Attorneys for Applicants

By

  
Sheridan Neimark  
Registration No. 20,520

SN:jaa  
Telephone No.: (202) 628-5197  
Facsimile No.: (202) 737-3528  
F:\,Y\YUAS\Kaiho3\PTO\Amd Prelim.doc

Version with Markings to Show Changes Made

3. (Amended) The compound according to claim ~~1 or~~ 2, a pharmaceutically acceptable salt thereof, or prodrugs a prodrug of the said compound or its salt thereof, wherein Q is Q<sup>2</sup> (~~{~~where Q<sup>2</sup> represents a single bond), Q<sup>62</sup>, Q<sup>63</sup>, Q<sup>64</sup>, Q<sup>3</sup> (where R<sup>8</sup> has the same meaning as defined above), Q<sup>4</sup> (where R<sup>8</sup> has the same meaning as defined above), Q<sup>17</sup> (where R<sup>7</sup> has the same meaning as defined above), Q<sup>32</sup> (where R<sup>7</sup> has the same meaning as defined above) or Q<sup>27</sup> (where R<sup>7</sup> has the same meaning as defined above).

4. (Amended) The compound according to ~~any one of~~ ~~claims 1-3~~ claim 1, a pharmaceutically acceptable salt thereof, or prodrugs a prodrug of the said compound or its salt thereof, wherein X<sup>1</sup> is -Ar-A-R<sup>1</sup> (wherein Ar, A and R<sup>1</sup> have the same meanings as defined above) and X<sup>2</sup> is a hydrogen atom.

5. (Amended) The compound according to ~~any one of~~ ~~claims 1-3~~ claim 1, a pharmaceutically acceptable salt thereof, or prodrugs a prodrug of the said compound or its salt thereof, wherein X<sup>1</sup> is a hydrogen atom and X<sup>2</sup> is -Ar-A-R<sup>1</sup> (wherein Ar, A and R<sup>1</sup> have the same meanings as defined above).

6. (Amended) The compound according to ~~any one of~~

~~claims 1-5~~claim 1, a pharmaceutically acceptable salt thereof, or ~~predrug~~a prodrug of the ~~said~~ compound or its salt thereof, wherein the dashed line forms a single bond together with the solid line.

7. (Amended) The compound according to claim 1, ~~2, 3, 4 or 6~~, a pharmaceutically acceptable salt thereof, or ~~predrug~~a prodrug of the compound or its salt, wherein the steric configuration of X<sup>1</sup> in 11-position is  $\beta$ -configuration.

8. (Amended) The compound according to claim 1, ~~2, 3, 5 or 6~~, a pharmaceutically acceptable salt thereof, or ~~predrug~~a prodrug of the compound or its salt, wherein the steric configuration of X<sup>2</sup> in 7-position is  $\alpha$ -configuration.

9. (Amended) The compound according to ~~any one of claims 1-8~~claim 2, a pharmaceutically acceptable salt thereof, or ~~predrug~~a prodrug of the compound or its salt, wherein Z is a straight-chained or branched alkyl group having 1 - 10 carbon atoms which ~~may optionally be~~ is substituted by a halogen atom.

11. (Amended) The compound according to ~~any one of claims 1-10~~claim 2, a pharmaceutically acceptable salt

thereof, or ~~pre~~drug~~s~~ prodrug of the compound or its ~~salt~~ssalt, wherein J is a single bond.

12. (Amended) The compound according to ~~any one of~~  
~~claims 1-11~~ claim 1, a pharmaceutically acceptable ~~salt~~ssalt  
thereof, or ~~pre~~drug~~s~~ prodrug of the compound or its  
~~salt~~ssalt, wherein Ar is a single bond.

13. (Amended) The compound according to ~~any one of~~  
~~claims 1-12~~ claim 1, a pharmaceutically acceptable ~~salt~~ssalt  
thereof, or ~~pre~~drug~~s~~ prodrug of the compound or its  
~~salt~~ssalt, wherein A is a methylene group.

14. (Amended) The compound according to ~~any one of~~  
~~claims 1-13~~ claim 2, a pharmaceutically acceptable ~~salt~~ssalt  
thereof, or ~~pre~~drug~~s~~ prodrug of the compound or its  
~~salt~~ssalt, wherein Q is Q<sup>62</sup>, Q<sup>63</sup> or Q<sup>64</sup>.

15. (Amended) The compound according to ~~any one of~~  
~~claims 1-13~~ claim 2, a pharmaceutically acceptable ~~salt~~ssalt  
thereof, or ~~pre~~drug~~s~~ prodrug of the compound or its  
~~salt~~ssalt, wherein Q is Q<sup>3</sup> where R<sup>8</sup> is a hydrogen atom or Q<sup>4</sup>  
where R<sup>8</sup> is a hydrogen atom.

16. (Amended) The compound according to ~~any one of~~  
~~claims 1-13~~ claim 2, a pharmaceutically acceptable ~~salt~~ssalt  
thereof, or ~~pre~~drug~~s~~ prodrug of the compound or its

~~saltssalt~~, wherein Q is Q<sup>17</sup> where R<sup>7</sup> is a hydrogen atom, Q<sup>32</sup> where R<sup>7</sup> is a hydrogen atom or Q<sup>27</sup> where R<sup>7</sup> is a hydrogen atom.

17. (Amended) The compound according to ~~any one of claims 1-11~~ claim 1, a pharmaceutically acceptable ~~saltssalt~~ thereof, or ~~prodrugs~~ a prodrug of the compound or its ~~saltssalt~~, wherein Ar is an aromatic hydrocarbon group and A is -O-.

18. (Amended) The compound according to ~~any one of claims 1-17~~ claim 2, a pharmaceutically acceptable ~~saltssalt~~ thereof, or ~~prodrugs~~ a prodrug of the compound or its ~~saltssalt~~, wherein G is an optionally substituted straight-chained alkylene group having 2 - 15 carbon atoms.

23. (Amended) The compound according to ~~any one of claims 1-3~~ claim 1, a pharmaceutically acceptable ~~saltssalt~~ thereof, or ~~prodrugs~~ a prodrug of the compound or its ~~saltssalt~~, which is selected from ~~among the group consisting of~~

17 $\beta$ -hydroxy-7 $\alpha$ -(7-(N,N-dimethylaminocarbonyl)heptyl)-5 $\alpha$ -androstan-3-one;

17 $\beta$ -hydroxy-7 $\alpha$ -(7-(N-ethylaminocarbonyl)heptyl)-5 $\alpha$ -androstan-3-one;

17 $\beta$ -hydroxy-7 $\alpha$ -[7-(N-(isopropylaminocarbonyl)heptyl)-5 $\alpha$ -

androstan-3-one;

17 $\beta$ -hydroxy-7 $\alpha$ -[7-(N-methyl-N-butylaminocarbonyl)heptyl]-5 $\alpha$ -  
androstan-3-one;

17 $\beta$ -hydroxy-7 $\alpha$ -[7-(N,N-diethylaminocarbonyl)heptyl]-5 $\alpha$ -  
androstan-3-one;

17 $\beta$ -hydroxy-7 $\alpha$ -[7-(piperidinocarbonyl)heptyl]-5 $\alpha$ -androstan-3-  
one;

17 $\beta$ -hydroxy-7 $\alpha$ -[7-(N-(2-furylmethyl)aminocarbonyl)heptyl]-5 $\alpha$ -  
androstan-3-one;

17 $\beta$ -hydroxy-7 $\alpha$ -[7-(N-methylaminocarbonyl)heptyl]-5 $\alpha$ -  
androstan-3-one;

17 $\beta$ -hydroxy-7 $\alpha$ -[7-(N-methyl-N-ethylaminocarbonyl)heptyl]-5 $\alpha$ -  
androstan-3-one;

17 $\beta$ -hydroxy-7 $\alpha$ -[7-(N-methyl-N-propylaminocarbonyl)heptyl]-5 $\alpha$ -  
androstan-3-one;

17 $\beta$ -hydroxy-7 $\alpha$ -[7-(N-methyl-N-isopropylaminocarbonyl)heptyl]-  
5 $\alpha$ -androstan-3-one;

17 $\beta$ -hydroxy-7 $\alpha$ -[7-(N-methyl-N-benzylaminocarbonyl)heptyl]-5 $\alpha$ -  
androstan-3-one;

17 $\beta$ -hydroxy-7 $\alpha$ -[7-(1-pyrrolidinylcarbonyl)heptyl]-5 $\alpha$ -  
androstan-3-one;

17 $\beta$ -hydroxy-7 $\alpha$ -[7-(morpholinocarbonyl)heptyl]-5 $\alpha$ -androstan-3-  
one;

17 $\beta$ -hydroxy-7 $\alpha$ -[9-(N,N-dimethylaminocarbonyl)nonyl]-5 $\alpha$ -  
androstan-3-one;

17 $\beta$ -hydroxy-7 $\alpha$ -[9-(N,N-diethylaminocarbonyl)nonyl]-5 $\alpha$ -  
androstan-3-one;

17 $\beta$ -hydroxy-7 $\alpha$ -[9-(N-methyl-N-butylaminocarbonyl)nonyl]-5 $\alpha$ -  
androstan-3-one;

17 $\beta$ -hydroxy-7 $\alpha$ -[9-(N-methyl-N-propylaminocarbonyl)nonyl]-5 $\alpha$ -  
androstan-3-one;

17 $\beta$ -hydroxy-7 $\alpha$ -[9-(morpholinocarbonyl)nonyl]-5 $\alpha$ -androstan-3-  
one;

17 $\beta$ -hydroxy-7 $\alpha$ -[10-(N,N-dimethylaminocarbonyl)decyl]-5 $\alpha$ -  
androstan-3-one;

17 $\beta$ -hydroxy-7 $\alpha$ -[7-{N-(2-hydroxyethyl)aminocarbonyl}heptyl]-  
5 $\alpha$ -androstan-3-one;

17 $\beta$ -hydroxy-7 $\alpha$ -[7-(N-propylaminocarbonyl)heptyl]-5 $\alpha$ -  
androstan-3-one;

17 $\beta$ -hydroxy-7 $\alpha$ -[7-(N-benzylaminocarbonyl)heptyl]-5 $\alpha$ -  
androstan-3-one;

17 $\beta$ -hydroxy-7 $\alpha$ -[7-{N-(2-phenylethyl)aminocarbonyl}heptyl]-5 $\alpha$ -  
androstan-3-one;

17 $\beta$ -hydroxy-11 $\beta$ -[9-(N,N-diethylaminocarbonyl)nonyl]-5 $\alpha$ -  
androstan-3-one;

17 $\beta$ -hydroxy-7 $\alpha$ -[3-[3-{3-(N-

methylaminocarbonyl)propoxy}phenyl]propyl]-5 $\alpha$ -androstan-3-one;

17 $\beta$ -hydroxy-7 $\alpha$ -[3-[3-{3-(N,N-

dimethylaminocarbonyl)propoxy}phenyl]propyl]-5 $\alpha$ -androstan-3-one; and

17 $\beta$ -hydroxy-7 $\alpha$ -[3-[3-{4-(1-

pyrrolidinylcarbonyl)butoxy}phenyl]propyl]-5 $\alpha$ -androstan-3-one.